

Canon



Aplio 500

Platinum HD Series

Better outcomes
from detection to treatment



Superior imaging performance is one of the key reasons that make Aplio one of today's most popular premium diagnostic ultrasound systems. A full range of clinically proven tools offers uncompromised image quality. A host of advanced imaging and quantification functions ensures that you can make the best informed disease management decisions.

Aplio 500

Superior imaging – cutting edge technology

Every patient is unique, many are challenging. Aplio™ 500 delivers outstanding performance for superior clinical precision, diagnostic confidence and departmental productivity. Crystal clear images consistently across a wide variety of clinical specialties and an abundance of expert tools ensure you can always get your diagnostic answer quickly and reliably – from early detection to treatment and follow up.



**High Density
Beamforming**



**High Density
Rendering**



**Realtime
Application**



**iStyle+
Productivity**

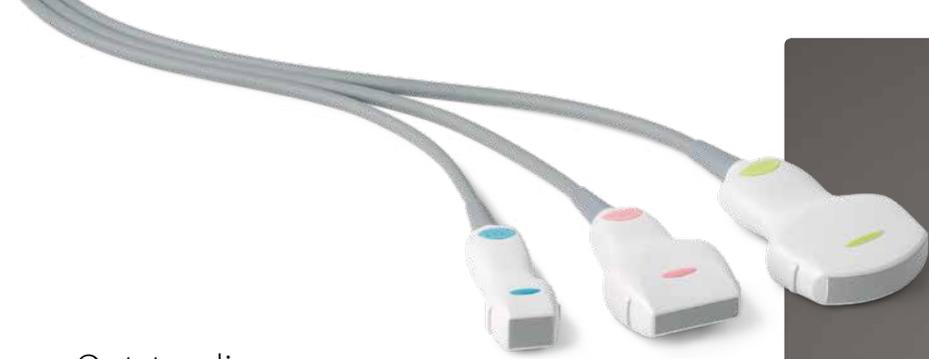
Aplio's unique core technologies provide an unmatched level of clinical precision, departmental productivity and ease of use, allowing you to get your diagnosis quicker and with higher confidence.



Enjoy the perfect picture every day

The best image quality allows a diagnosis to happen quickly and with confidence. Each of Aplio's unique imaging technologies provides you with better image quality by reducing noise, strengthening signal and improving visualization. The system's revolutionary High Density Beamformer uses the most advanced digital signal processing to control the ultrasonic beams more precisely and flexibly.

<p>Precision Imaging delivers outstandingly smooth images with significantly sharpened outline of lesions. From widespread areas to fine details in layers and boundaries Precision Imaging reveals more clinical detail for a faster and safer diagnosis.</p>	<p>ApliPure™+ combines the advantages of spatial and frequency compounding to provide you with images of unsurpassed uniformity and detail while preserving clinically significant markers such as shadows behind echo-dense objects.</p>	<p>Differential Tissue Harmonics provides clinical images of unsurpassed spatial resolution and contrast, alongside with greatly increased penetration, taking outstanding tissue definition to deeper regions than ever before.</p>



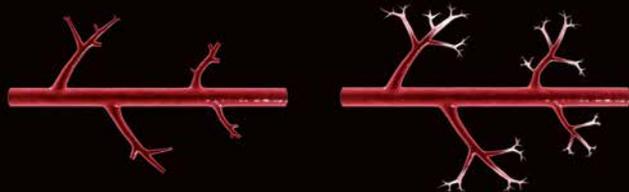
Outstanding diagnostics starts here

Designed to increase efficiency, our lightweight transducers feature outstanding clinical versatility, ergonomic shapes and thin, super-flexible cables. Aplio's transducers deliver superb image quality and respond with high flexibility to the widest range of clinical applications.



Seeing the unseen

Canon Medical Systems' innovative Superb Micro-Vascular Imaging (SMI) technology expands the range of visible blood flow and provides visualization of low velocity microvascular flow never before seen with ultrasound. SMI's level of vascular visualization, combined with high frame rates, advances diagnostic confidence when evaluating lesions, cysts and tumors, improving patient outcomes and experience.

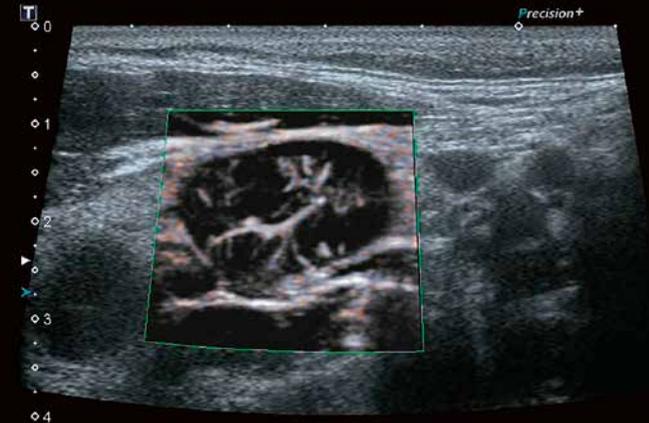


Conventional

SMI



By removing anatomical background information, the monochrome mode reveals the finest vasculature with high sensitivity.

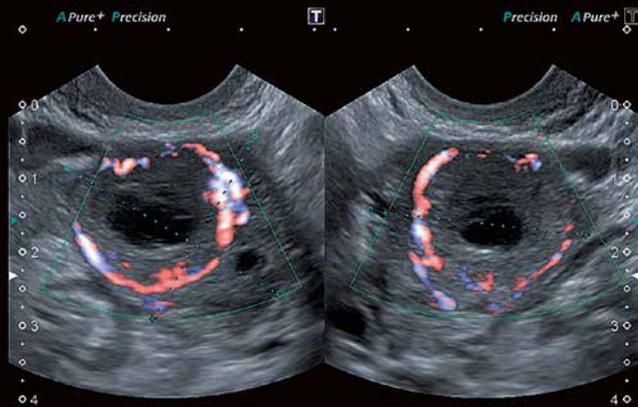


Color-coded SMI demonstrates flow and greyscale information with high temporal and spatial resolution simultaneously.



Exceptional detail for a more precise diagnosis

Both the busy clinician and the patient can benefit from high-resolution imaging and volumetric ultrasound. Aplio's comprehensive volume imaging suite extends your diagnostic capabilities into the next dimension of imaging with extraordinary image quality and uncompromised workflow.



Advanced Dynamic Flow™ adds superior spatial resolution to color Doppler imaging to reveal minute vasculature and complex flow patterns with unprecedented accuracy and detail while fully maintaining the B-mode image quality.



Luminance provides a softer, more natural visualization of the skin resulting in images of exceptional quality and detail. The function's freely movable light source gives you strong visual feedback on depth and detail.



Aplio's MultiView provides a very effective tool for the assessment of lesions and their associated structures. The function allows you to cut a given volume in any direction to reveal high-resolution off-axis views that can further enhance your diagnostic confidence.

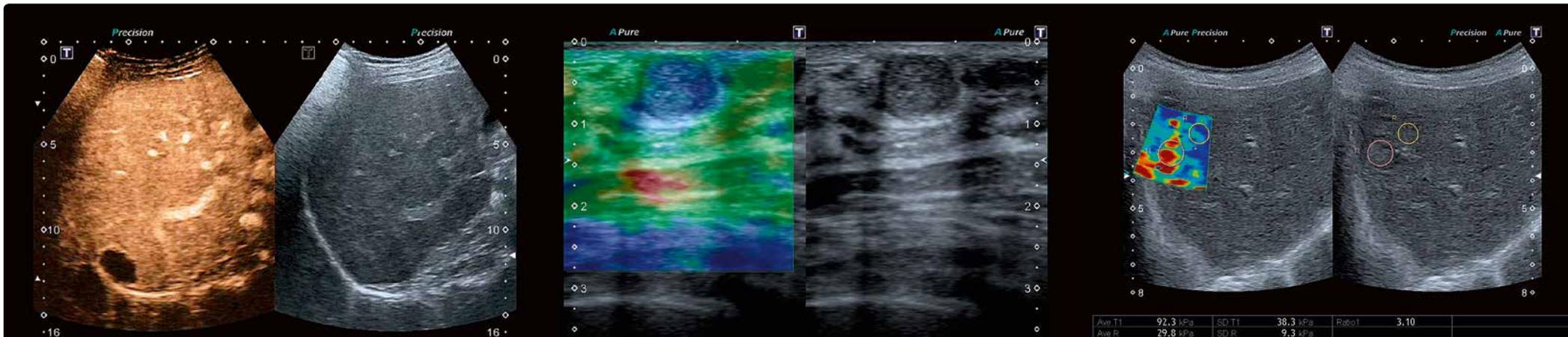


Fly Thru lets you virtually dive into a volume data set to explore cavities, ducts and vessels from the inside. Comparable to virtual endoscopy, Fly Thru adds cross-sectional ultrasound information to the surface data, making it an expert tool for exploring lesions and ingrowing masses.



Advanced tools to help you better evaluate disease

Powered by the industry's most advanced Realtime Application Platform, Aplio 500 provides you with a complete range of exclusive, clinically proven technologies to increase your diagnostic confidence. By giving you valuable additional information in easy-to-understand visual, parametric and quantitative formats, these advanced technologies can help you avoid supplementary exams to get your diagnostic answer. Thus, you can save expenses and enhance your department's productivity.



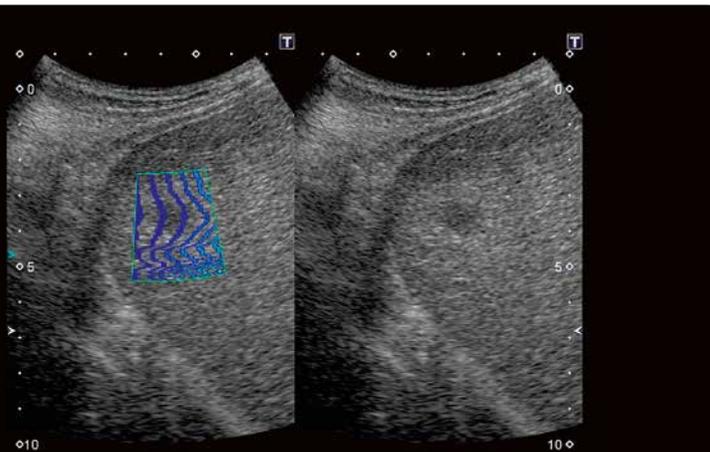
Aplio's comprehensive contrast imaging package supports an ample variety of standard and specialty transducers allowing you to assess perfusion dynamics in a wide range of clinical settings.

The system's complete elastography solution with raw data functionality assists you in localizing and assessing palpable masses with high accuracy, sensitivity and reproducibility in a wide range of clinical settings.

Canon Medical Systems' shear wave technology provides a dynamic visual display of tissue stiffness in a variety of clinical settings ranging from abdominal to small parts examinations. The highly accurate and reproducible tool provides fully integrated measurement and reporting.

Specialty transducers

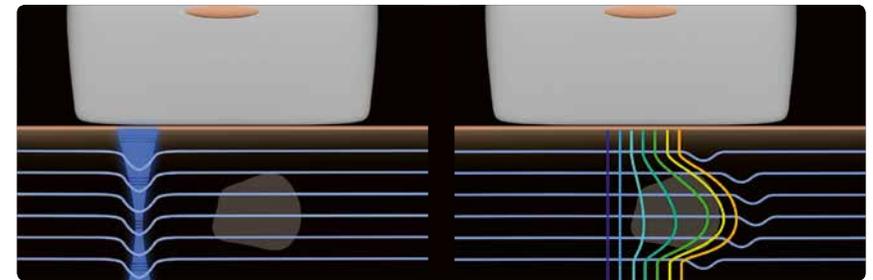
Aplio 500 provides you with an extensive selection of specialty transducers for the widest range of clinical applications, including many advanced techniques such as elastography or CEUS. All specialty probes feature the same outstanding image quality and versatility as the standard transducers.



Aplio's Smart Maps allow you to visualize and quantify shear wave propagation in a user-defined region of interest in realtime. The user can select both dynamic propagation speed and elasticity displays for visual assessment and quantification.

The principle behind shear wave elastography

Shear waves are generated inside the human body by means of an ultrasonic burst (left). Depending on tissue stiffness, shear waves travel at varying speed, but generally very slowly through the human body. Their propagation can be followed and visualized using conventional ultrasound imaging techniques.



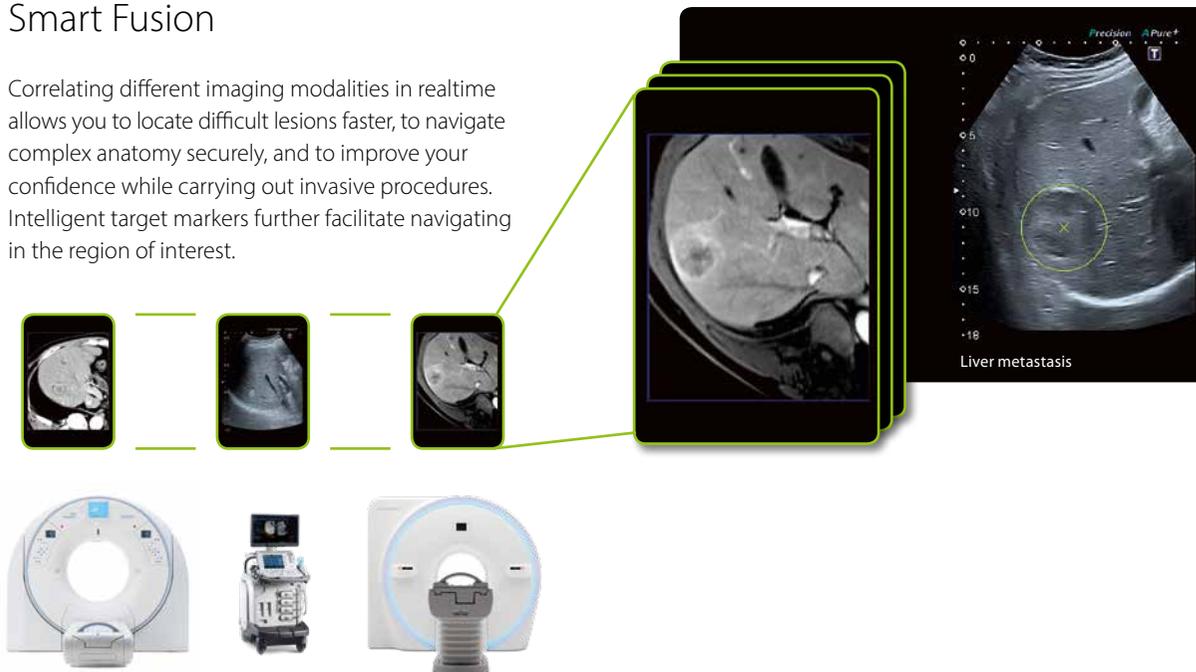


Navigate with ease, treat with confidence

Aplio provides you with a wide range of tools and options for advanced imaging and interventions, helping you to deliver better outcomes from early detection to treatment and follow-up. Dedicated transducers and an abundance of imaging and navigation tools help you enhance clinical confidence and accuracy during interventional procedures and their follow-up.

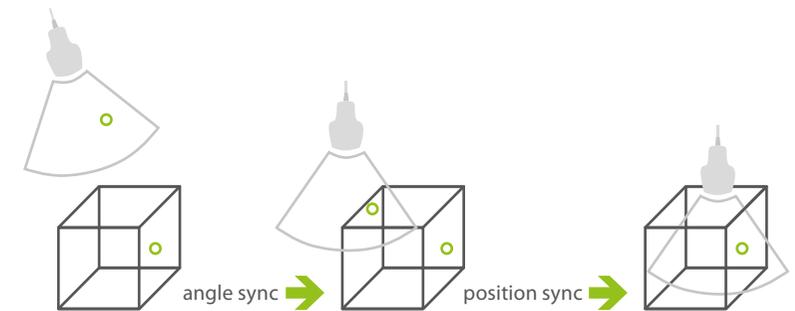
Smart Fusion

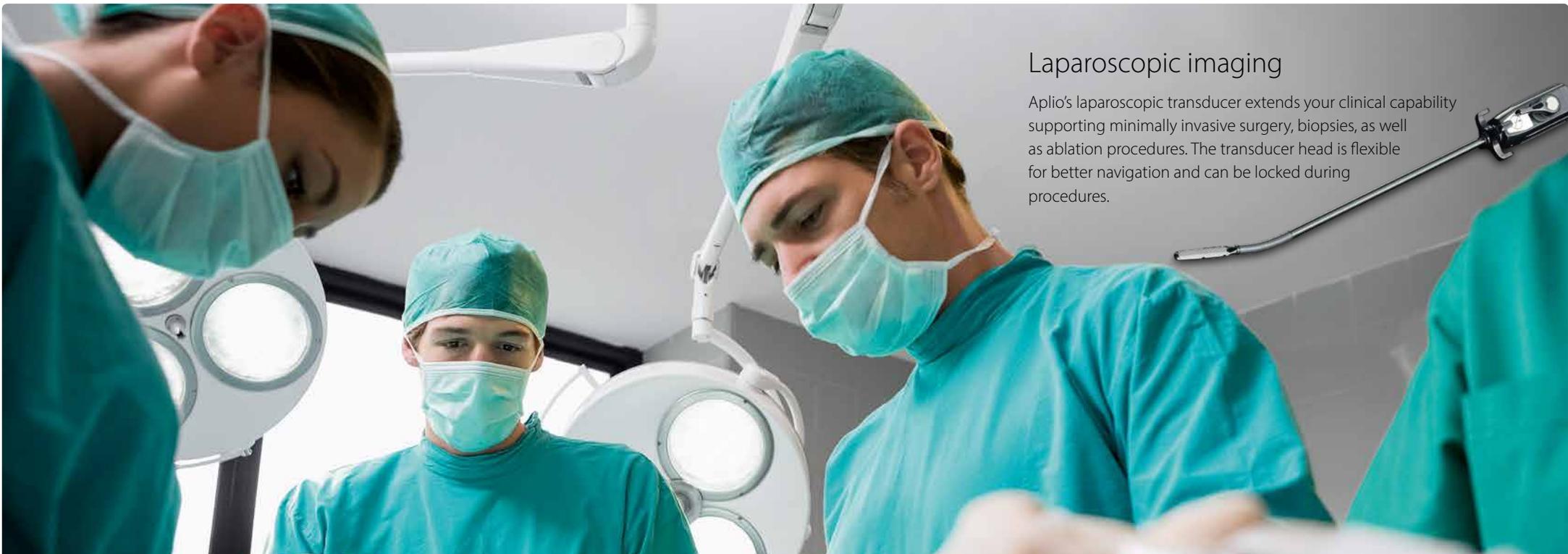
Correlating different imaging modalities in realtime allows you to locate difficult lesions faster, to navigate complex anatomy securely, and to improve your confidence while carrying out invasive procedures. Intelligent target markers further facilitate navigating in the region of interest.



Merging modalities to improve confidence

With Aplio, matching the transducer position with the pre-acquired 3D data set is a simple and quick two-step process. By moving the transducer over the region of interest you can now browse the area simultaneously in both realtime ultrasound and pre-acquired CT, MR or ultrasound data.





Laparoscopic imaging

Aplio's laparoscopic transducer extends your clinical capability supporting minimally invasive surgery, biopsies, as well as ablation procedures. The transducer head is flexible for better navigation and can be locked during procedures.



Aplio's Smart Navigation option helps to enhance precision and patient safety during ultrasound-guided treatment procedures. Color-coded, virtual biopsy lines corresponding with the needle positions allow you to track up to three biopsy needles simultaneously.

Canon Medical Systems' Biopsy Enhancement Auto Mode (BEAM) provides a clearer visualization of biopsy needles in the live ultrasound image. BEAM works with all common needle sizes and selects the optimal scan angle automatically.

Aplio's Center Marker is a handy tool for matching the position of a given lesion or region of interest seen in the ultrasound image with the corresponding spot on the skin surface or vice versa. The Center Marker can help facilitate biopsies or procedures involving other imaging modalities.

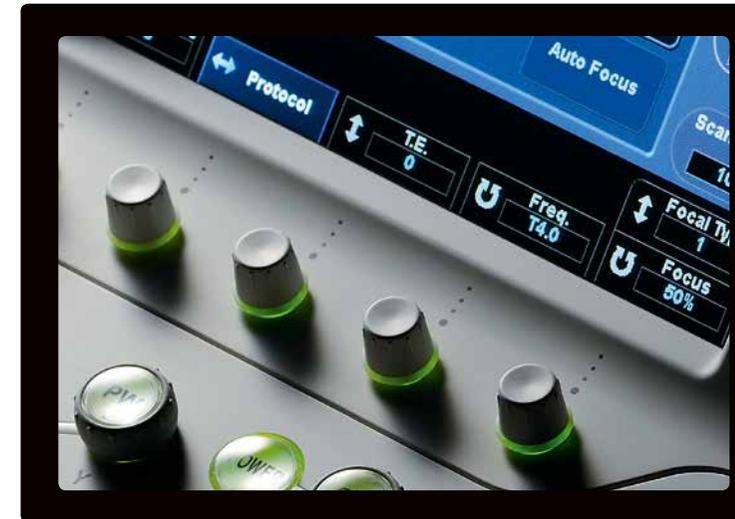


Performance meets intelligence

Aplio's unique iStyle™+ productivity suite provides you with a full host of technologies that offer ergonomic relief by reducing keystrokes, improving workflow and raising the consistency of exams. A smaller, lighter form gives you greater maneuverability while the fully configurable console and intelligent workflow support functions enable faster exams and greater productivity.



Aplio 500's compact design with height-adjustable console and fully articulating monitor arm enables you to create an ergonomic work environment in virtually any clinical setting. The system's premium LCD screen with four-axis arm can move and swivel into perfect position for better viewing and to protect you from neck, shoulder and eye strain.



3D multifunctional keys

Aplio's 3D multifunctional keys offer four degrees of freedom for outstanding usability. Their mode-sensitive function is fully programmable and displayed in the adjacent touch screen in an easy-to-understand manner.



Fully programmable console

You can customize Aplio's console to suit your clinical needs and personal preferences simply by reassigning functions to the keys of your choice. This results in better reach, fewer keystrokes and a shorter learning curve.



Quick Start clinical settings

Changing presets during an exam can disrupt your workflow, because system settings need to be optimized from scratch. The fully programmable Quick Start menu allows you to adjust only the relevant parameter set at a single touch of a button.



QuickScan image optimization

QuickScan allows you to achieve greater consistency in your exams by ensuring that superb image quality is the benchmark at all times. With a simple push of a button you can automatically optimise image quality in 2D and spectral Doppler modes.



Quick Assist protocols

Aplio's protocol assistant provides a reliable method to ensure that the same exam is performed from patient to patient. Once activated the tool automatically launches a clear, easy-to-read on-screen menu that will guide you through your exam.

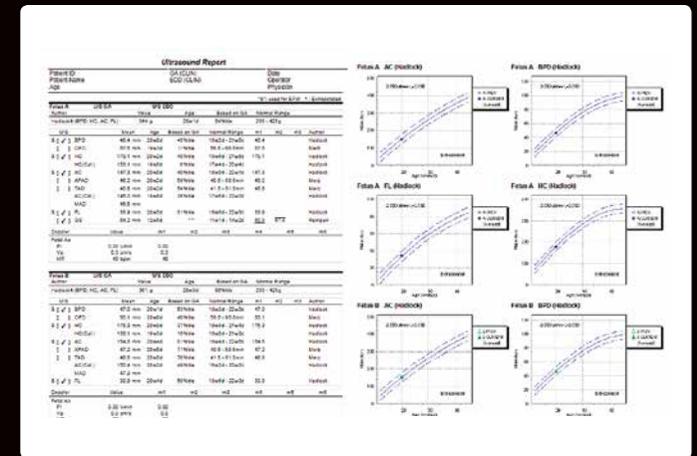
From imaging to quantification, from reporting to archiving, Aplio provides a full-spectrum solution that helps you manage routine and advanced clinical studies more efficiently.

Thanks to the system's embedded raw data functionality you can review, analyze, report and archive your clinical data anytime with no loss of functionality. Aplio is designed to embrace open network standards to facilitate easy integration in the widest variety of network environments.

Additionally, to ensure the system's continuous high performance, we offer a range of support services our customers have consistently rated best in the industry.



Our external workstation solution gives you full access to your clinical data and diagnostic tool set wherever and whenever needed. With embedded raw data functionality and a host of clinical tools you can review, analyze, report and archive your data quickly and easily.



Managing your study data

Aplio's fully integrated patient and image management system allows you to review and manage your studies conveniently onboard before sending them to PACS for reporting or archiving, including image and raw data as well as structured reports.

Exporting your clinical data

Aplio ships standard with a DVD writer and USB connection for study documentation and data export. The unit can be equipped with integrated medical printers or a DVD recorder for onboard study documentation.

Reporting options

Aplio provides comprehensive onboard facilities allowing you to semi-automatically generate reports including measurements, charts, clinical images, as well as text. Reports are customizable to meet your department's standards and formats.

Aplio *Platinum Series*

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CANON MEDICAL SYSTEMS EUROPE B.V.

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